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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/578,544	04/13/2007	Francis Phillip Chatfield	M03B167	9066
71134 Edwards Vacuu	7590 03/23/201 m, Inc.	EXAMINER		
2041 MISSION SUITE 260	COLLEGE BOULEV	STIMPERT, PHILIP EARL		
SANTA CLAR	A, CA 95054		ART UNIT	PAPER NUMBER
			3746	
			NOTIFICATION DATE	DELIVERY MODE
			03/23/2010	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

LORETTA.SANDOVAL@EDWARDSVACUUM.COM

Office Action Summary		Ap	Application No. App		pplicant(s)			
		10	0/578,544	CHATFIELD	CHATFIELD, FRANCIS PHILLIP			
		Ex	aminer	Art Unit				
		Ph	nilip Stimpert	3746				
Period fo	The MAILING DATE of this commu r Reply	nication appears	on the cover shee	t with the corresponden	ce address			
A SHO WHIC - Exter after - If NO - Failur Any r	DRTENED STATUTORY PERIOD F HEVER IS LONGER, FROM THE M sions of time may be available under the provision SIX (6) MONTHS from the mailing date of this com period for reply is specified above, the maximum s e to reply within the set or extended period for repl eply received by the Office later than three months d patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE s of 37 CFR 1.136(a). munication. tatutory period will ap y will, by statute, caus	OF THIS COMMU In no event, however, ma ply and will expire SIX (6) se the application to become	JNICATION.  ay a reply be timely filed  MONTHS from the mailing date one ABANDONED (35 U.S.C. § 13	of this communication.			
Status								
	Responsive to communication(s) fil	ed on 05 May 2	2006					
·	Responsive to communication(s) filed on <u>05 May 2006</u> .  This action is <b>FINAL</b> .  2b) This action is non-final.							
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٥,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)🖂	Claim(s) <u>1-18</u> is/are pending in the	application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
6)🖂	6)⊠ Claim(s) <u>1-18</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)□	Claim(s) are subject to restri	ction and/or ele	ction requirement.					
Applicati	on Papers							
9) 🗆 -	The specification is objected to by the	ne Examiner.						
10)🛛	The drawing(s) filed on <u>05 May 200</u> 6	<u>6</u> is/are∶ a)⊠ a	ccepted or b)□ o	bjected to by the Exami	ner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) includin	g the correction is	s required if the drav	ving(s) is objected to. See	37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	nder 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> </ul>								
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.								
Attachment	(s)							
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)								
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date  Notice of Informal Patent Application								
Paper No(s)/Mail Date <u>5/5/06</u> .								

Application/Control Number: 10/578,544 Page 2

Art Unit: 3746

### **DETAILED ACTION**

#### Information Disclosure Statement

1. The information disclosure statement filed 5 May 2006 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-18 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent 6,244,841 to Schofield et al. (Schofield hereinafter).
- 4. Regarding claim 1, in Fig. 3, Schofield teaches a vacuum pump comprising a pumping mechanism (2A), a drive shaft (3), a gear box (5) connected to the shaft to rotate it (col. 4, ln. 56-63), and pressure control means (21, 23, 24) defining a path (between 24 and the shaft, see col. 5, ln. 44-53, oil is urged back toward the gear box) to allow fluid (oil) to flow from the pumping mechanism (2A) to the gear box and to reduce the pressure difference therebetween (col. 5, ln. 35-39), and a reservoir

(between 21 and 24) for collecting oil passing along the drive shaft so that pressurized fluid urges oil toward the gear box (5).

Page 3

- 5. Regarding claim 2, Schofield teaches that the pressure control means are restrictions.
- 6. Regarding claims 3 and 4, Schofield teaches that there are two chambers (23 and adjacent chamber between 21 and 24) proximate the pumping mechanism and the gear box.
- 7. Regarding claim 5, Schofield teaches a second path (30) to allow fluid to flow from the gear box (5) to the pumping mechanism (2A) to reduce the pressure difference therebetween.
- 8. Regarding claim 6, Schofield teaches that the second path is defined in part by a bore (30) within the shaft (3).
- 9. Regarding claim 7, Schofield teaches a fluid inlet (32) proximate the gear box and a fluid outlet (31) proximate the chamber.
- 10. Regarding claim 8, Schofield teaches that a nonreturn valve, in the form of a conical section on the shaft (leading to one-way fluid flow via centrifugal force) is formed in the fluid path.
- 11. Regarding claim 9 and 18, Schofield teaches that a part of the path (30) is defined by a conduit (30) extending between the pumping mechanism and the gear box (5) and having a filter (33) for removing particulates.

Application/Control Number: 10/578,544 Page 4

Art Unit: 3746

12. Regarding claims 10-12, Schofield teaches a second path (30) to allow fluid to flow from the gear box (5) to the pumping mechanism (2A) to reduce the pressure difference therebetween.

13. Regarding claims 13-17, Schofield teaches that a nonreturn valve, in the form of a conical section on the shaft (leading to one-way fluid flow via centrifugal force) is formed in the fluid path.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip Stimpert whose telephone number is (571)270-1890. The examiner can normally be reached on Mon-Fri 7:30AM-4:00PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Devon Kramer can be reached on (571) 272-7118. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/578,544 Page 5

Art Unit: 3746

/Devon C Kramer/ Supervisory Patent Examiner, Art Unit 3746

/P. S./ Examiner, Art Unit 3746 12 March 2010